

26 MAY 1977

MEMORANDUM FOR THE RECORD

SUBJECT: SAFE Uninterruptible Power Systems Floor Space Requirement

Since the Uninterruptible Power Systems (UPS) load requirement was increased to 1800 kVA 60 Hz and 350 kVA 400 Hz, the adequacy of the floor space allotted for UPS equipment was reevaluated. It was determined that the 3700 sq. ft. area which was initially reserved for the UPS equipment is still adequate, however, the considerations and assumptions which led to this conclusion should be noted.

1. The area was evaluated using the space requirements of UPS equipment presently in the building. This equipment was supplied by two different vendors. Whether or not the equipment of other vendors will fit in this area is not known. It can only be stated that there is, presently on the market, equipment which can be installed in the limited space available. It has been assumed that the UPS Request For Proposal will require the prospective vendors to arrange the equipment to fit within the allotted space.

2. It has been assumed that the bulk of the output switchgear will be located outside the UPS room.

3. The 3700 sq. ft. area allotted is extremely "tight". Any increase in power requirements will generate an immediate need for more space (unless advances in UPS technology significantly reduce equipment size). It has been assumed any increase in load will be accompanied by an increase in floor space for UPS equipment.

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Project Engineer, HEB/RECD/OL

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